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under the staple *u*, the object of which staple is to keep it in its place on the batten *ww*.

The hook *qq*, as shewn in the cut, moves as much more than the treadle *i* as the pulley *n* is larger than the pulley *m*.

No. V.

IMPROVED TUBE FOR WEAVING WIDE
VELVET.

The Sum of THREE POUNDS was presented to Mr. DAVID BOND, No. 4 Fleur-de-Lis Court, Spitalfields, for his improved Wire Tube for Weaving Wide Velvet; a Model of which has been placed in the Society's Repository.

*4 Fleur-de-Lis Court,
Wheeler Street, Spitalfields,
July 18, 1842.*

SIR,

I HAVE discovered an improvement in the tube for making wide velvet, in preventing the wires from being injured. I am now at work with the improved tube, which can be seen by any one calling on me, as it is my wish for it to become a general benefit. I beg to offer it to the Society of Arts for their patronage and encouragement.

I am, Sir, &c.

DAVID BOND.

*To the Secretary of the
Society of Arts.*

In weaving wide velvet, the wire on which the loops of the pile are formed, and afterwards cut, is conveyed into the shed of the warp by being placed in a tube; for the invention

of which the Society rewarded Messrs. Hanchard, Cole, and Sodo, in 1839.

The defect in Mr. Hanchard's tube appears to be the liability of the wire sticking between the internal surface of the tube and the spring plug, which is used for pushing out part of the wire at the end of the tube (A in the accompanying section), so that the wire may be held while the tube is withdrawn from the opening of the warp.

The injury thus occasioned to the wire in the original tube, besides the loss of time, renders Mr. Bond's improvement valuable to wide velvet weavers generally.

Mr. Bond makes the butt end of the tube B F, which contains the plug, larger than its main body A C, so that the wire may not be conducted to the edge of the plug, and thus become fixed between it and the inner surface of the tube. The spring G draws back the slide as usual.

In the section A and B are the two ends of the tube, the middle portion being omitted to save space. The wire is placed entirely within the tube through the opening at A, its lower end resting against the slide D. In this position the tube is ready to be passed across the warp, and when that is done the assistant pushes up the slide D by its handle E, which will cause a sufficient length of the wire to protrude at the opening A, to enable the weaver to take hold of it; the tube is then withdrawn, leaving the wire in its place.

